=> d his

(FILE 'HOME' ENTERED AT 08:23:40 ON 19 JUN 2006)

FILE 'REGISTRY' ENTERED AT 08:23:54 ON 19 JUN 2006 E TERTIARY-BUTYL LITHIUM/CN L1STRUCTURE UPLOADED STRUCTURE UPLOADED L2 L3 2 S L1 27 S L1 CSS FUL L436 S L2 L5 17048 S L2 FUL L6 E DIISOPROPENYLBENZEN/CN L71 S E4 L8 1 S L7 FILE 'CAPLUS' ENTERED AT 08:27:36 ON 19 JUN 2006 L9 2006 S L4 32411 S L6 L1060 S L8 L11L120 S L9 AND L10 AND L11 L13 3 S L8 AND L4

=> d ll L1 HAS NO ANSWERS L1 STR



Structure attributes must be viewed using STN Express query preparation.

=> d 12 L2 HAS NO ANSWERS L2 STR

Structure attributes must be viewed using STN Express query preparation.

=> d bib abs hitstr kwic 1-3 113

L13 ANSWER 1 OF 3 CAPLUS COPYRIGHT 2006 ACS on STN

AN 2000:303181 CAPLUS

DN 133:59140

TI Preparation and characterization of a linear poly(4-vinylpyridine)-b-polybutadiene-b-poly(4-vinylpyridine) using a t-butyllithium/m-disopropenylbenzene diadduct as a dicarbanion initiator

AU Li, Hsien-Jung; Tsiang, Raymond Chien-Chao

CS Department of Chemical Engineering, National Chung Cheng University, Chiavi, Taiwan

SO Polymer (2000), 41(15), 5601-5610 CODEN: POLMAG; ISSN: 0032-3861

PB Elsevier Science Ltd.

DT Journal

LA English

AB A linear, nearly monodisperse poly(4-vinylpyridine)-b-polybutadiene-bpoly(4-vinylpyridine) (VBV) has been synthesized using a dicarbanion initiator. The diinitiator, comprising a 2:1 molar ratio of tert-BuLi to m-diisopropenylbenzene, was prepared at $-20\,^{\circ}\mathrm{C}$ in the presence of Et3N, amounting to 1.5 times of the tert-BuLi moles to ensure a difunctionality. The VBV synthesis was conducted at -80°C in a mixed THF/PhMe solvent in order to circumvent the chain branching reactions arising from the -N=CH- group of the 4-vinylpyridine. absence of chain branching under such conditions has been verified by GPC/MALL and UV analyses, and syntheses at higher temps. are detrimental. Compared with an analogous polystyrene-b-polybutadiene-b-polystyrene (SBS), VBV relaxes slower with a higher activation energy of relaxation. Although phase separation occurs for both VBV and SBS, VBV exhibits a different morphol., having a hard domain of a droplet-cluster type. The polarity of the poly(4-vinylpyridine) not only produces a Tg higher than that of the polystyrene, but also increases the Tg of the rubbery polybutadiene phase. The relaxation mechanism deduced based on the X-method indicates that contributions to relaxation for both VBV and SBS are in such order: phys. flow > domain destruction > phys. untangling.

IT 594-19-4, tert-Butyllithium 27342-70-7,

Diisopropenylbenzene

RL: RCT (Reactant); RACT (Reactant or reagent)
(starting material; catalysts for preparation of butadiene-vinylpyridine triblock copolymers)

RN 594-19-4 CAPLUS

CN Lithium, (1,1-dimethylethyl) - (9CI) (CA INDEX NAME)

RN 27342-70-7 CAPLUS

CN Benzene, bis(1-methylethenyl) - (9CI) (CA INDEX NAME)



RE.CNT 50 THERE ARE 50 CITED REFERENCES AVAILABLE FOR THIS RECORD ALL CITATIONS AVAILABLE IN THE RE FORMAT

IT 594-19-4, tert-Butyllithium 27342-70-7,

Diisopropenylbenzene

RL: RCT (Reactant); RACT (Reactant or reagent)
 (starting material; catalysts for preparation of butadiene-vinylpyridine
 triblock copolymers)

L13 ANSWER 2 OF 3 CAPLUS COPYRIGHT 2006 ACS on STN

AN 1999:511189 CAPLUS

DN 131:144984

TI Gel-free process for making functionalized anionically polymerized polymers

IN Bening, Robert Charles; Goodwin, Daniel Earl; Handlin, Dale Lee, Jr.;
Wilkey, John David; Willis, Carl Lesley; Donaho, Charles Roy; Diaz, Zaida

PA Shell Internationale Research Maatschappij BV, Neth.

SO PCT Int. Appl., 80 pp.

CODEN: PIXXD2

DT Patent

LA English

FAN.CNT 1

FAN.CNI I																				
	PATENT NO.				KIND		DATE			APPLICATION NO.					DATE					
							-	-									-			
PΙ	WO	0 9940121			A1		1999	WO 1999-EP667					19990203							
		W:	JP,	KR																
		RW:	AT,	BE,	CH,	CY,	DE,	DK,	ES,	FÍ,	FR	,	GB,	GR,	ΙE,	IT,	LU,	MC,	NL,	
			PT,	SE																
	US	6462	143			B1		2002	1008	Ī	US	19	99-	2343	35		1:	9990	120	
	EP	1042	369			A1		2000	1011]	ΕP	19	99-	9074	78		1	9990:	203	
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	JΡ	2002	5028	91		T2		2002	0129	,	JP	20	00-	5305	48		1:	9990:	203	
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	US	6242	537			В1		2001	0605	1	US	19	99-	2602	39		1:	9990:	302	
	US	6242	538			В1		2001	0605	1	US	19	99-	3049	15		1:	9990	504	
PRAI	US	1998	-735	92P		P		1998	0203											
	US	1998	-798	76P		P		1998	0330											
	US	1998	-8792	20P		P		1998	0604											
	WO	1999	-EP6	67		W		1999	0203											

The present invention relates to a process for making gel-free functionalized anionic polymers using multi-alkali metal initiators which comprises: anionically polymerizing at least one monomer (e.g., butadiene) with a multi-alkali metal initiator in a hydrocarbon solvent, capping the polymer by adding to the polymer a capping agent (e.g., ethylene oxide) that reacts with the ends of the polymer chains such that strongly associating chain ends are formed wherein a strongly associating gel is formed, and adding a trialkyl aluminum compound to the gel. According to a further embodiment, the invention relates to a gel-free process for making functionalized anionic polymers using multi-alkali metal initiators which comprises: anionically polymerizing at least one monomer with a multi-alkali metal

initiator in a hydrocarbon solvent, adding a trialkylaluminum compound before or during polymerization or before or at the same time as the capping agent, and capping the polymer by adding to the polymer a capping agent which, in the absence of the trialkylaluminum compound, would react with the polymer chain ends to form strongly associating chain ends wherein a strongly associating gel would be formed. Further aspects of the invention relate to a process for making functionalized polymer from unfunctionalized polymer; to a process for making functionalized polymer from polymers that are functionalized with a different functionality; and to a process for hydrogenating the polymers prepared by the above processes.

IT 594-19-4, tert-Butyllithium 27342-70-7,

Diisopropenylbenzene

RL: CAT (Catalyst use); USES (Uses)

(gel-free process for making functionalized anionically polymerized polymers)

RN 594-19-4 CAPLUS

CN Lithium, (1,1-dimethylethyl) - (9CI) (CA INDEX NAME)

RN 27342-70-7 CAPLUS

CN Benzene, bis(1-methylethenyl) - (9CI) (CA INDEX NAME)



$$\begin{array}{c|c}
CH_2 \\
\parallel \\
D1-C-Me
\end{array}$$

RE.CNT 1 THERE ARE 1 CITED REFERENCES AVAILABLE FOR THIS RECORD ALL CITATIONS AVAILABLE IN THE RE FORMAT

IT 594-19-4, tert-Butyllithium 598-30-1, sec-Butyllithium

27342-70-7, Diisopropenylbenzene

RL: CAT (Catalyst use); USES (Uses)

(gel-free process for making functionalized anionically polymerized polymers)

L13 ANSWER 3 OF 3 CAPLUS COPYRIGHT 2006 ACS on STN

AN 1997:247869 CAPLUS

DN 126:225713

TI Star polymers having functional and nonfunctional ends from mixed initiators

IN Quirk, Roderic P.

PA FMC Corp., USA

SO PCT Int. Appl., 81 pp.

CODEN: PIXXD2

DT Patent

LA English

FAN.CNT 1

PATENT NO. KIND DATE APPLICATION NO. DATE ____ -----------19970213 WO 1996-US12380 19960729 PΙ WO 9705179 **A1** W: AL, AM, AT, AU, AZ, BB, BG, BR, BY, CA, CH, CN, CZ, DE, DK, EE, ES, FI, GB, GE, HU, IL, IS, JP, KE, KG, KP, KR, KZ, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG RW: KE, LS, MW, SD, SZ, UG, AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN AU 9666819 A1 19970226 AU 1996-66819 PRAI US 1995-1687P Ρ 19950731 WO 1996-US12380 W 19960729

OS MARPAT 126:225713

AB Butadiene or isoprene and styrene or α -methylstyrene are polymerized singly, sequentially, or as mixts. ≥30 min at -30 to 150° in a solvent in the presence of BuLi, sec-BuLi, or tert-BuLi and LiQnZT(AR1R2R3)m [Q = unsatd. hydrocarbylene group derived by incorporation of ≥1 of conjugated dienes and alkenyl aromatic compds. into the LiZ linkage at a CLi bond; Z = C3-25 hydrocarbylene, T = O, S, or N, (AR1R2R3) m = protecting group, A = C or Si, R1, R2, R3 = H, (substituted) alkyl, (substituted) aryl, or C5-12 cycloalkyl; m = 1 or 2, n = 0-5] as initiators. The resulting living polymer anions are reacted ≥1 h with ≥1 of SiCl4, SnCl4, PCl3, diisopropenylbenzene, or divinylbenzene at 20-135° and terminated by a protic agent. The protecting group is removed, and the functional groups on the end of some of the arms of the star polymers are reacted with di- or polyfunctional comonomers to give the title polymers. A typical protected star polymer having tert-butoxy and sec-Bu end groups was manufactured by polymerization of 15.6 g

isoprene 5 h at 50-55° in cyclohexane in the presence of sec-BuLi and 3-tert-butoxy-1-propyllithium chain-extended with 2 units of isoprene and polymerization of the resulting living polymer 9 h at 60° with 0.26 mL divinylbenzene.

IT 594-19-4, tert-Butyllithium

RL: CAT (Catalyst use); USES (Uses)

(catalyst; star polymers having functional and nonfunctional ends and their manuf by anionic polymerization in presence of nonfunctional and protected functional catalysts)

RN 594-19-4 CAPLUS

CN Lithium, (1,1-dimethylethyl) - (9CI) (CA INDEX NAME)

IT 27342-70-7, Diisopropenylbenzene

RL: RCT (Reactant); RACT (Reactant or reagent)

(chain coupling agent, in claims; star polymers having functional and nonfunctional ends and their manuf by anionic polymerization in presence of nonfunctional and protected functional catalysts)

RN 27342-70-7 CAPLUS

CN Benzene, bis(1-methylethenyl) - (9CI) (CA INDEX NAME)



$$\begin{bmatrix} & \text{CH}_2 \\ \parallel & \parallel \\ \text{D1-C-Me} \end{bmatrix}$$

=>

IT 109-72-8, Butyllithium, uses 594-19-4, tert-Butyllithium 598-30-1, sec-Butyllithium 104164-68-3 104646-81-3 104646-83-5 104673-85-0, 3-tert-Butoxy-1-propyllithium 131904-35-3 136119-58-9 157666-87-0 157666-89-2 159035-03-7 146681-51-8 171247-67-9 176649-04-0 179538-69-3 188244-77-1 188244-78-2 188244-79-3 188244-80-6 188244-81-7 188244-82-8 188244-83-9 188244-84-0 188244-85-1 188244-86-2 188244-89-5 188244-90-8 188244-91-9 188244-92-0 188244-93-1 188244-94-2 188244-95-3 188244-96-4 188244-97-5 188244-99-7 188245-01-4 188245-02-5 188245-04-7 188245-06-9 188245-10-5 188245-12-7 188245-15-0 188245-17-2 188245-20-7 188245-23-0 188245-26-3 188245-28-5 188245-29-6 188245-30-9 188245-31-0 188245-32-1 188245-33-2 188295-41-2 RL: CAT (Catalyst use); USES (Uses)

(catalyst; star polymers having functional and nonfunctional ends and their manuf by anionic polymerization in presence of nonfunctional and protected functional catalysts)

IT 1321-74-0, Divinylbenzene, reactions 1322-23-2, Trivinylbenzene 7646-78-8, Tin tetrachloride, reactions 7719-12-2, Phosphorus trichloride 10026-04-7, Silicon tetrachloride 27342-70-7, Diisopropenylbenzene 77221-84-2, Divinylnaphthalene 118063-73-3, 1,3,5-Tris(1-phenylethenyl)benzene 188312-15-4

RL: RCT (Reactant); RACT (Reactant or reagent)

(chain coupling agent, in claims; star polymers having functional and nonfunctional ends and their manuf by anionic polymerization in presence of nonfunctional and protected functional catalysts)

=> d scan

L15 11 ANSWERS REGISTRY COPYRIGHT 2006 ACS on STN

IN Methanone, bis[4-(diethylamino)phenyl]- (9CI)

MF C21 H28 N2 O

CI COM

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1):al 'AL' IS NOT VALID HERE

To display more answers, enter the number of answers you would like to see. To end the display, enter "NONE", "N", "0", or "END".

HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1):all
'ALL' IS NOT VALID HERE

To display more answers, enter the number of answers you would like to see. To end the display, enter "NONE", "N", "0", or "END". HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1):12

L15 11 ANSWERS REGISTRY COPYRIGHT 2006 ACS on STN

IN Lithium, [1-[3-[1-[[4-(dimethylamino)phenyl]hydroxymethyl]-1,3,3trimethylbutyl]phenyl]-1,3,3-trimethylbutyl]-, lithium salt (9CI)

MF C29 H44 Li N O . Li

● Li

L15 11 ANSWERS REGISTRY COPYRIGHT 2006 ACS on STN IN Stannane, dichlorobis(1,1-dimethylethyl)- (9CI)

MF C8 H18 Cl2 Sn

CI COM

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L15 11 ANSWERS REGISTRY COPYRIGHT 2006 ACS on STN IN 1,3-Butadiene, homopolymer (9CI) ADDITIONAL NAMES NOT AVAILABLE IN THIS FORMAT MF (C4 H6)x CI PMS, COM

CM 1

$$H_2C \longrightarrow CH - CH \longrightarrow CH_2$$

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L15 11 ANSWERS REGISTRY COPYRIGHT 2006 ACS on STN IN Stannane, chlorotrimethyl- (8CI, 9CI) MF C3 H9 Cl Sn CI COM

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L15 11 ANSWERS REGISTRY COPYRIGHT 2006 ACS on STN IN Benzaldehyde, 4-(dimethylamino)- (9CI) MF C9 H11 N O CI COM

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L15 11 ANSWERS REGISTRY COPYRIGHT 2006 ACS on STN

L15 11 ANSWERS REGISTRY COPYRIGHT 2006 ACS on STN IN Lithium, [μ -[1,3-phenylenebis(1,3,3-trimethylbutylidene)]]di- (9CI) MF C20 H32 Li2

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L15 11 ANSWERS REGISTRY COPYRIGHT 2006 ACS on STN IN Benzene, ethenyl-, polymer with 1,3-butadiene (9CI) ADDITIONAL NAMES NOT AVAILABLE IN THIS FORMAT MF (C8 H8 . C4 H6)x CI PMS, COM

CM 1

 $H_2C \longrightarrow CH \longrightarrow CH \longrightarrow CH_2$

CM 2

 $H_2C \longrightarrow CH - Ph$

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L15 11 ANSWERS REGISTRY COPYRIGHT 2006 ACS on STN IN Benzene, 1,3-bis(1-methylethenyl)- (9CI)

MF C12 H14

CI COM

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L15 11 ANSWERS REGISTRY COPYRIGHT 2006 ACS on STN

IN Lithium, (1,1-dimethylethyl) - (9CI)

MF C4 H9 Li

CI COM

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

ALL ANSWERS HAVE BEEN SCANNED

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(FILE 'HOME' ENTERED AT 08:23:40 ON 19 JUN 2006)

FILE 'REGISTRY' ENTERED AT 08:23:54 ON 19 JUN 2006 E TERTIARY-BUTYL LITHIUM/CN L1STRUCTURE UPLOADED L2 STRUCTURE UPLOADED L3 2 S L1 27 S L1 CSS FUL L4L5 36 S L2 17048 S L2 FUL L6 E DIISOPROPENYLBENZEN/CN L7 1 S E4 L81 S L7 FILE 'CAPLUS' ENTERED AT 08:27:36 ON 19 JUN 2006 2006 S L4 L9 32411 S L6 L1060 S L8 L110 S L9 AND L10 AND L11 L123 S L8 AND L4 L13E US20040097634A1/PN L14 1 S E3 SELECT RN L14 1 FILE 'REGISTRY' ENTERED AT 08:35:46 ON 19 JUN 2006 L15 ·11 S E1-E11 E BENZENE, 1,3-BIS(1-METHYLETHENYL)/CN L16 1 S E4 FILE 'REGISTRY' ENTERED AT 08:40:23 ON 19 JUN 2006 L171 S L16 FILE 'CAPLUS' ENTERED AT 08:40:35 ON 19 JUN 2006 L18 216 S L16 L19 2 S L9 AND L10 AND L18 => d bib abs hitstr 1-2 L19 ANSWER 1 OF 2 CAPLUS COPYRIGHT 2006 ACS on STN AN 2002:221243 CAPLUS DN 136:264349 TI Synthesis of aromatic solvent-soluble functionalized di-lithium initiators in rubber manufacture IN Halasa, Adel Farhan; Hsu, Wen-liang PA Goodyear Tire & Rubber Co., USA SO U.S. Pat. Appl. Publ., 8 pp. CODEN: USXXCO DTPatent LΑ English FAN.CNT 1 KIND DATE PATENT NO. APPLICATION NO. PI US 2002035294 A1 20020321 US 2001-944664 20010831 US 6686504 B2 20040203 GB 2368845 A1 20020515 GB 2001-21070 20010830 GB 2368845 B2 20040630 US 2004097634 A1 20040520 US 2003-713122 20031114 PRAI US 2000-229494P P 20000831 US 2001-944664 A3 20010831 --------------

OS MARPAT 136:264349

AB The process can be conducted in the absence of amines which is desirable since amines can act as modifiers for anionic polymns. A dilithium initiator is made by reacting diisopropenylbenzene with a tertiary alkyl lithium compound in an aromatic solvent at 0°-100°, where the prefered initiator, m-di-(1-lithio-1-methyl-3,3-dimethylbutyl)benzene (I), is made by reacting diisopropenylbenzene with tertiary-butyllithium in an aromatic solvent. Thus, 1,3-butadiene was polymerized at 75° for 2 h in the presence of I to give polybutadiene having a glass transition temperature -99° and Mooney viscosity (ML-4, 100°) 44.

IT 90-93-7DP, 4,4'-Bis (diethylamino) benzophenone, reaction products

with butadiene rubber
RL: IMF (Industrial manufacture); PREP (Preparation)

(aromatic solvent-soluble functionalized di-lithium initiators in rubber manufacture)

RN 90-93-7 CAPLUS

CN Methanone, bis[4-(diethylamino)phenyl] - (9CI) (CA INDEX NAME)

IT 594-19-4 3748-13-8, m-Diisopropenylbenzene

RL: RCT (Reactant); RACT (Reactant or reagent)

(aromatic solvent-soluble functionalized di-lithium initiators in rubber manufacture)

RN 594-19-4 CAPLUS

CN Lithium, (1,1-dimethylethyl) - (9CI) (CA INDEX NAME)

RN 3748-13-8 CAPLUS

CN Benzene, 1,3-bis(1-methylethenyl) - (9CI) (CA INDEX NAME)

IT 100-10-7, p-Dimethylaminobenzaldehyde

RL: RCT (Reactant); RACT (Reactant or reagent)

(reaction with bislithium trimethylbutyl benzene; aromatic solvent-soluble functionalized di-lithium initiators in rubber manufacture)

RN 100-10-7 CAPLUS

CN Benzaldehyde, 4-(dimethylamino)- (9CI) (CA INDEX NAME)

L19 ANSWER 2 OF 2 CAPLUS COPYRIGHT 2006 ACS on STN

AN 2001:294975 CAPLUS

DN 134:312323

TI Preparation of conjugated diene-aromatic vinyl compound random copolymer functionalized at both terminals using difunctional initiators

IN Shin, Hyeon Cheol; Lee, Chang Hwan

PA Korea Kumho Petrochemical Co., Ltd., S. Korea

SO U.S., 5 pp. CODEN: USXXAM

DT Patent

LA English

FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE		
PI US 6221975	В1	20010424	US 1999-377305	19990819		
KR 2000040682	Α	20000705	KR 1998-56389	19981219		
PRAI KR 1998-56389	Α	19981219				

AB Title polymer with improved rolling resistance, useful in making tire treads (no data), is prepared by polymerizing a conjugated diene and a vinyl aromatic monomer in the presence of a difunctional initiator derived from a divinyl aromatic compound and an organo-lithium compound in a hydrocarbon solvent

to form a living copolymer having one terminal of two anionic sites of the initiator, and adding a polar and electrophilic compound to the living polymer. Thus, butadiene 1472.2 and styrene 196.83 mmol were reacted in the presence of 0.4 mmol 1,3-bis(1-lithio-1,3,3-trimethylbutyl)benzene obtained from 1,3-diisopropenyl benzene, tert-butyllithium and triethylamine in cyclohexane THF mixture solvent at 40° for 2 h, and mixed with 2 mmol 4-dimethylaminobenzophenone in THF at 60° for 2 h to give a polymer having weight average mol. weight 257,000 g/mol, mol. weight distribution 1.14, styrene content 20.8%, vinyl content 62% and terminal functionalization efficiency 65%.

90-93-7DP, 4,4'-Bis (diethylamino) benzophenone, reaction products with butadiene-styrene copolymer 530-44-9DP,

4-Dimethylaminobenzophenone, reaction products with butadiene-styrene copolymer

RL: IMF (Industrial manufacture); POF (Polymer in formulation); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses) (preparation of conjugated diene-aromatic vinyl compound random copolymer functionalized at both terminals using difunctional initiators)

RN 90-93-7 CAPLUS

CN Methanone, bis[4-(diethylamino)phenyl]- (9CI) (CA INDEX NAME)

RN 530-44-9 CAPLUS

CN Methanone, [4-(dimethylamino)phenyl]phenyl- (9CI) (CA INDEX NAME)

هه الواص

IT 594-19-4, tert-Butyllithium 3748-13-8, 1,3-Diisopropenyl

benzene

RL: RCT (Reactant); RACT (Reactant or reagent)
 (preparation of dilithium initiators)

RN 594-19-4 CAPLUS

CN Lithium, (1,1-dimethylethyl) - (9CI) (CA INDEX NAME)

RN 3748-13-8 CAPLUS

CN Benzene, 1,3-bis(1-methylethenyl)- (9CI) (CA INDEX NAME)

RE.CNT 37 THERE ARE 37 CITED REFERENCES AVAILABLE FOR THIS RECORD ALL CITATIONS AVAILABLE IN THE RE FORMAT

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